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INDUSTRIAL GROUP

Outer Bearing Race PRODUCTION SOLUTION





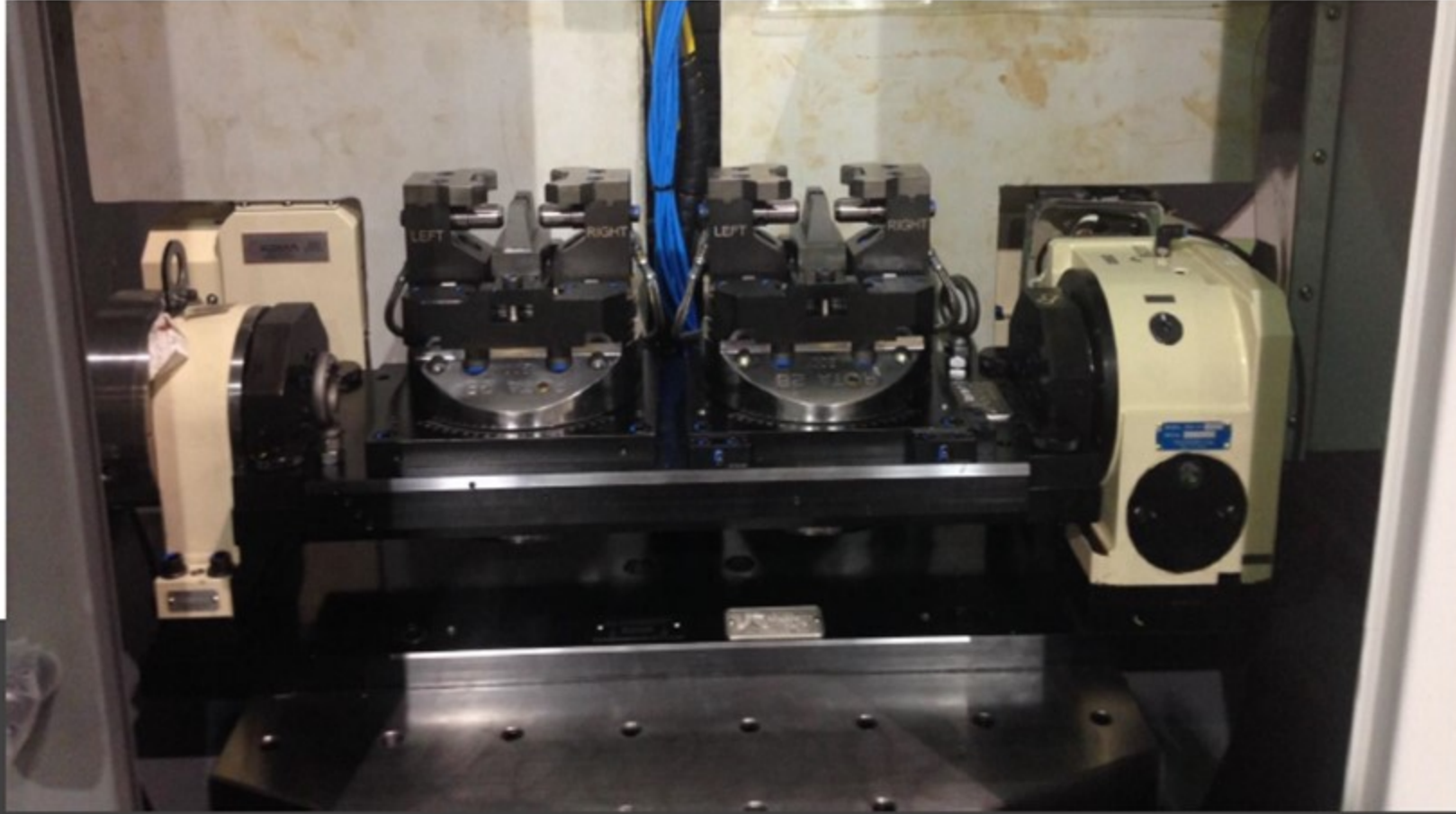
AUTOMOTIVE

(2) DM43VCD Process Summary:

Outer Bearing Cage Window Machining

- Custom Fixture Design & Manufacturing
- 4th & 5th Axis Rotary Table Integration (x2)
- Custom Hydraulics
- Pneumatic Part Seat Confirmation
- Tooling Package
- Tool Breakage Detection
- Programming
- High Pressure Coolant Through & Filtration
- Remote Monitoring
- Robot Interface / Automation Prepped
- Installation & Training
- Run Off & Production Support

Process with Rotary Tables



4th Axis Fixture Design & Manufacturing

Process without Rotary Tables



Fixture Design & Manufacturing

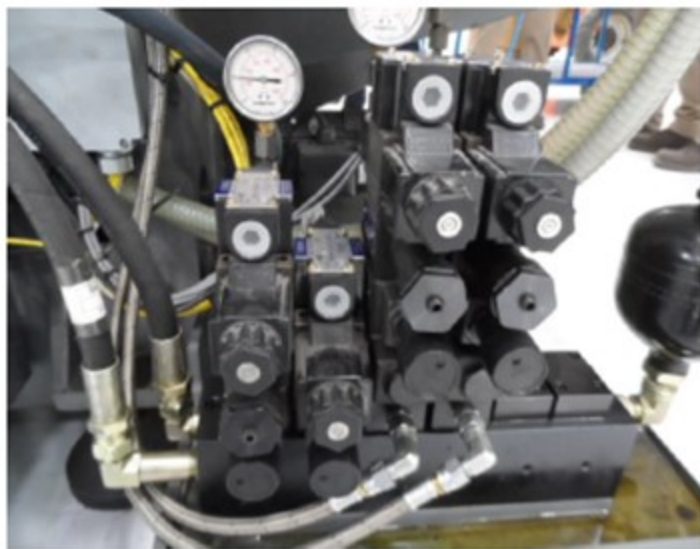
Custom Hydraulics



Air Part Present



Run Off / Gauging





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Customer Training



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Installation Completed